



D3, English  
translation

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DESCRIPTION

accompanying the application for the patent for industrial invention having as object and

TITLE

Method for the instantaneous preparation of matt and gloss paint (1)

In the name of Colorificio Adriatico s.r.l. company, Italian joint-stock company, having the head office at 86 Pilone street, Lucrezia di Cartoceto, province of Pesaro, 61030, tax code 00150130417, at the presence of the legal representative Mr. Paolo Marchionni:

- appointed inventor Mr. Paolo Marchionni, born in Fano, province of Pesaro, the 10<sup>th</sup> of February 1943, residing at 14 Caprera Street, Fano, province of Pesaro, 61032, tax code MRC PLA 43B10 D4881;
- by means of representative Gianluca Benedetti, lawyer in Pesaro, residing at the Pedrini & Benedetti Patent Office at 63 Bruno Buozzi Street, Pesaro, 61100.

Given in date 23 February 1998 with

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1) in Italian "VERNICI E PITTURE". There are different interpretation for these terms : one could be solvent and water-based paint, but the most common is gloss paint for "vernici" and matt paint for "pitture".

## SUMMARY

Method of instantaneous preparation of matt and gloss paint paints including the preparation, in case of necessity, of bases by the guided dosage of related components and by the addition of colorants.

## DETAILED DESCRIPTION

- In the retailing of matt and gloss paints and similar it is already known the technique of preparing, in the case of necessity, the colours and chromatic tonalities required by the customers (tinting), ..... (2)
- Such technique allows retailers variety without requiring large amounts of in-house stock, with consequent advantages with regards to undelivered goods, space allocation and other things.

### Identification of the specific technical problem

- Such technique, however, relieves only the burden regarding the retailers' stock, because the "bases" of matt and gloss paints - understood as substances and amalgam, chromatically neutral or less, diversified in chemical and/or physical peculiarities and/or components' proportion, which are used for giving the product all further characteristics and specialities of application and superficial appearance as regards the chromaticity - these are, in any event, a considerable plurality, so that the retailer is obliged to keep a suitable supply of all "bases", each in the relative multiplicity of different packaging for the amounts used.

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2) these sentences describe the standard tinting technique: a specific shade chosen from a color card ( or fendec) is reproduced by adding the appropriate colorants in the right doses.

### Purposes of this invention

The purpose of this invention is therefore to provide a suitable technique to further limit the amount of associated goods that retailers of gloss and paints are required to maintain.

- Another purpose of the present invention is that of achieving the previous purpose through a technique which is easily and quickly executed.
- Another purpose of this invention is the achievement of the previous purposes through a technique suitable to be adopted in the widest possible sphere of application, as well as congenial to the needs of polyvalence and modularity which are in use in the specific sector.
- A further purpose of the present invention is the achievement of the previous purposes with devices easy to fabricate and execute.
- A further purpose of the present invention is the achievement of the previous purposes through an efficient technique, which can surely be carried out with a relatively low cost in comparison to the results achieved previously in practical application.

### Summary of the realisation or execution of the method

- These and other further purposes are all achieved by the method of preparation of instantaneous matt and gloss paint , according to the present invention, including the preparation, in case of necessity, of bases by the guided dosage of related components and by the addition of colorants

### Identification of the enclosed drawings

- Further characteristics and advantages of the method according the present invention will appear more evident by the following detailed description, regarding an example of realisation preferred but not exclusive, reported with the only purpose to be illustrative and not restrictive to a device of a relative carrying out schematically illustrated in the only table of drawings enclosed (3)

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(3) this part is absolutely not clear also in the original Italian release.

### An example describing the realisation of the method

- The method, according to the present invention, contemplates the preparation of the same bases by the retailers themselves, instead of the acquisition and storing, on the part of the retailers, of bases for matt and gloss paints prepared in advance, pre-produced bases that are in the considerable multiplicity of quantities and characteristics as well as for the assortment of packages of different quantities;
- In case of necessity, the method gives to retailers the fundamentals components of bases and relative additives, which are in a reduced quantity and from whose different combinations and proportions originates in substance all the bases of usual use and commercial availability, or anyway the majority of these;
- to retailers is also given a handbook concerning combinations, proportions and mixing of the given constituents and relative additives in order to get the various base preparations for the composition of matt and gloss paints;
- to those bases can be added the colorants to reach the required different nuances, following the pantone instructions.
- the method described above can be executed with the sample device represented in the last table here enclosed:
- In this table there is illustrated, in a basic schematic, the plan of a selling counter, in which on one side operate those assigned to the selling, while on the other are the customers;
- the counter has 20 containers or tanks, conceptually further divisible into two groups, the first six to contain the bases and the remaining fourteen to contain additives and colorants pastes. The details follow:
- The number 1 and 2 indicate two containers or tanks of larger dimensions, preferably made in fiber glass (vetroresina), intended to contain the most frequently used constituent bases, for example the "simple neutral" and "quartz neutral" bases;
- The numbers 3 to 6 indicate four containers or tanks of smaller dimensions, intended to contain further components, for example "extender", "transparent acrylic binder", "styrol-acrylic binder" and "vinil-versatic binder".
- Concerning the second group of containers, the number 7 indicates the largest container or tank of this group, to be used for the fundamental colouring paste, the most used one, that is "white

pastacolour”;

- The numbers 8 to 12 indicate four additional smaller containers or tanks, the first intended to contain another fundamental colouring paste commonly used, “pastacolor yellow ocre”, and the other four further additives, for example “silicate”, CR - SB solution (4)”, “lime” and “silossanic additive”;
- The numbers 13 to 20 indicate the last eight containers or tanks, of even smaller dimensions, intended to contain further fundamental colourings, for example “ red pastacolor”, “blue pastacolor”, “orange pastacolor” “titanium red pastacolor”, “yellow pastacolor”, “black pastacolor” “titanium yellow pastacolor” and “green pastacolor”.
- The structure is then completed by a distribution head, schematically illustrated and indicated by the number 21, understood to be equipped with dosing device connected to pipes which pump from each container or tank numbered by 1 to 20.

#### Alternatives in execution or realisation

It is obvious that alternative forms of execution or realisation within the innovative concept described above by means of example and claimed below exist; the method according to the present invention can be carried out with different and further bases, additives and colorants and executed by devices which include technical and mechanical equivalents equipped with further integrative devices and with modifications of the relative constituents varied in a suitable way to achieve the same aim.

#### Advantages of the invention

- As is evident from the above mentioned detailed description , the method according to the present invention offers the advantages corresponding to the achievement of the wanted aims and more. It integrates, in fact, an easily executed technique to contain the necessary but large assortment of supplies required by retailers of matt and gloss paint and similar

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(4) this solution is not so well defined and there are no further details in other parts of the patent.

### Sphere of the wanted protection (cited , referred to)

- Having described the method according the present invention with reference to a preferred form of realisation or execution, it is desirable to protect all possible forms of execution within all variants which can be achieved by the experts in the sector, that don't modify the invention sufficiently to obviate the intended aims; with this, it is intended both by the preceding descriptions and the following claims, to protect all form of execution or realisation and the variations within the concept of solution, the spirit and the aim of the invention.

### CLAIMS

- 1) Method of preparation of matt and gloss paint and similar, characterised by the fact of including preparation, when necessary, of the bases by guided dosage of the respective components and by adding of colorants.
- 2) Method, as in the first claim, characterised by the fact of including the composition by retailers of mixtures and amalgams chromatically neutral or less diversified regarding chemical peculiarities and/or physical and/or of measurement of components suitable to give to gloss and matt paints and similar all the characteristics and specialities of application and further superficial appearance compared to chromaticity, through a handbook about combination, measuring and mixture of these constituents and their additives and following coloration to reach colours and nuances as instruction of pantone.
- 3) Method, as in the preceding claims, characterised by the fact of being made with base components, colouring and additive of any kind and in any assortment.
- 4) Method, as in the preceding claims, characterised by the fact of being carried out by means of a mixing bench equipped with tanks for components of bases and colours, as well as equipped with dosing and mixing devices.
- 5) Method, as in the preceding claims, characterised by the fact of being executed or realised by a sales bench supplied by multiple containers and tanks and by measuring dispensers connected to these containers and tanks.

- 6) Method, as in the preceding claims, characterised by the fact of being carried out by means of a mixing bench structured and sized in such a way as to achieve the aim herein described.
- 7) Method, as in the preceding claims, characterised by the fact of being carried out by means of a mixing bench including containers and tanks of a quality, structure and size suitable to achieving the aim.
- 8) Method, as in the preceding claims, characterised by the fact of being carried out by means of a mixing bench including containers and tanks made of any material suitable to achieving the aim.
- 9) Method, as in the preceding claims, characterised by the fact of being carried out by means of a mixing bench with measuring dispensers connected to pipes and pumps and connected with containers and tanks of any kind suitable to achieving the aim and structured to achieving the aim.
- 10) Method of preparation of matt and gloss paints in accordance with the preceding claims, substantially as described and illustrated in the design tables herein included, and for a purpose to achieve the aims specified.



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